

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121621\
 Data File : VX025841.D
 Acq On : 16 Dec 2021 02:49
 Operator : JC/MD
 Sample : M5084-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

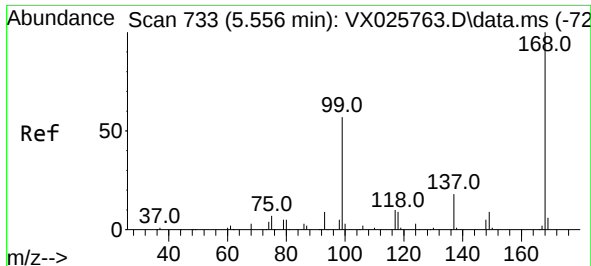
Instrument :
 MSVOA_X
 ClientSampleId :
 C4

Quant Time: Dec 16 07:35:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121321W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 14 07:02:11 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.562	168	151703	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	257485	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	231166	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	102797	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	97349	44.600	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	89.200%		
35) Dibromofluoromethane	5.391	113	40644	22.634	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	45.260%#		
50) Toluene-d8	8.653	98	301624	46.100	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.200%		
62) 4-Bromofluorobenzene	11.085	95	105967	42.636	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.280%		
Target Compounds					Qvalue	
5) Bromomethane	1.630	94	327	0.244	ug/l #	68
6) Chloroethane	1.642	64	284	0.209	ug/l #	42
10) Methyl Iodide	2.459	142	428	0.208	ug/l #	68
11) Tert butyl alcohol	2.965	59	878	2.005	ug/l #	89
13) Acrolein	2.239	56	121	0.404	ug/l #	46
16) Acetone	2.380	43	42000	25.659	ug/l	100
20) Methylene Chloride	2.788	84	69	Below Cal	#	45
25) 2-Butanone	4.562	43	13646	9.295	ug/l	91
29) Tetrahydrofuran	5.025	42	8472	9.077	ug/l	98
31) Cyclohexane	5.562	56	3500	1.319	ug/l #	37
36) 1,1-Dichloropropene	5.556	75	11763	4.830	ug/l #	50
37) Ethyl Acetate	4.562	43	13646	5.044	ug/l #	69
38) Carbon Tetrachloride	5.556	117	15649	5.523	ug/l #	15
41) Methacrylonitrile	5.025	41	4746	3.170	ug/l #	47
59) 2-Hexanone	9.445	43	511	0.236	ug/l	82
73) Isopropylbenzene	10.963	105	21472	2.878	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	53833	22.857	ug/l #	39
78) n-propylbenzene	11.305	91	10729	1.271	ug/l	99
79) 2-Chlorotoluene	11.305	91	10729	1.999	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	53833	70.861	ug/l #	10
82) 4-Chlorotoluene	11.305	91	10729	1.785	ug/l #	44
83) tert-Butylbenzene	11.719	119	2314	0.382	ug/l	86
85) sec-Butylbenzene	11.896	105	14954	2.051	ug/l	90
86) p-Isopropyltoluene	12.177	119	6527	1.066	ug/l	91
89) n-Butylbenzene	12.335	91	3491	0.684	ug/l	93
90) Hexachloroethane	12.616	117	4915	4.085	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	12.920	75	452	0.774	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.585	180	187	3.455	ug/l #	1
95) Naphthalene	13.780	128	3151	2.839	ug/l #	86
96) 1,2,3-Trichlorobenzene	13.963	180	80	3.030	ug/l #	1

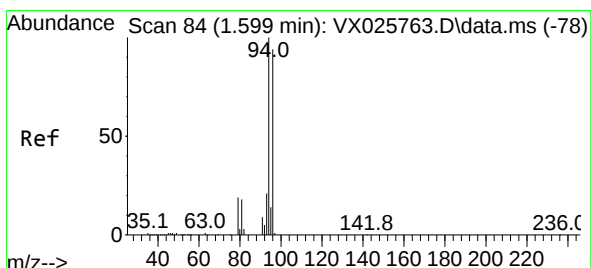
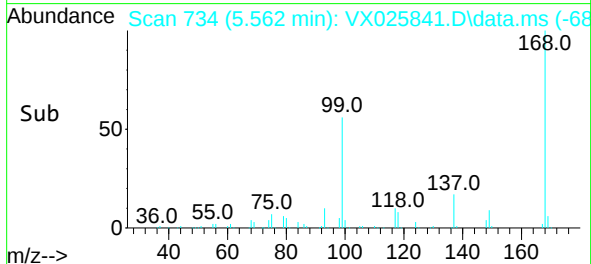
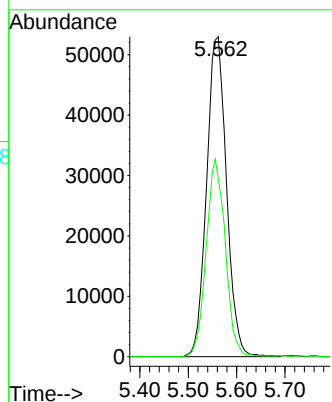
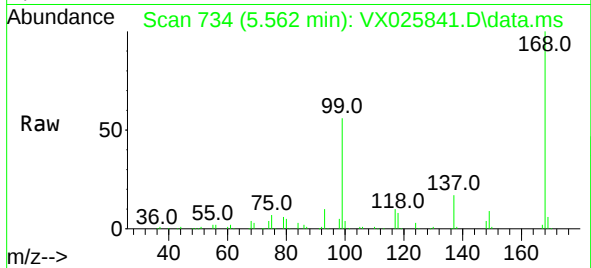
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

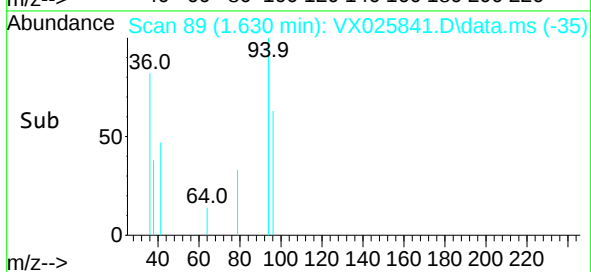
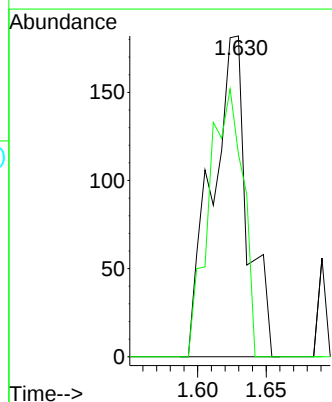
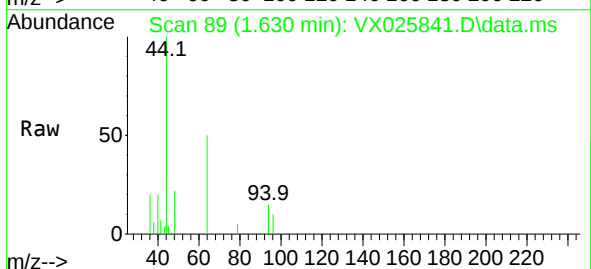
Instrument :
MSVOA_X
ClientSampleId :
C4

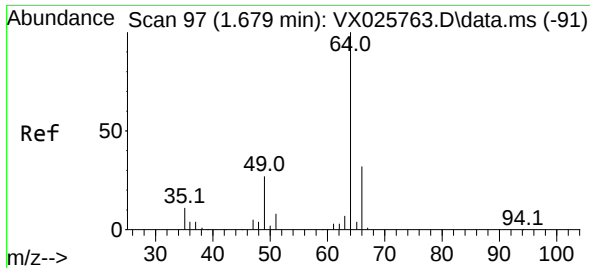
Tgt Ion:168 Resp: 151703
Ion Ratio Lower Upper
168 100
99 55.7 45.8 68.8



#5
Bromomethane
Concen: 0.244 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.030 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 94 Resp: 327
Ion Ratio Lower Upper
94 100
96 63.2 75.0 112.4#

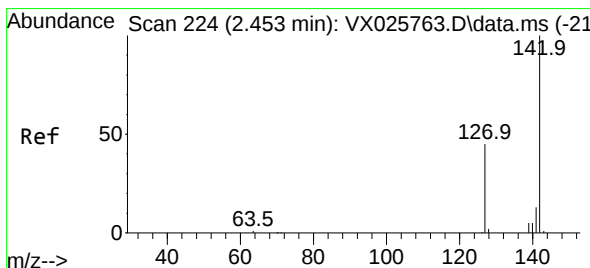
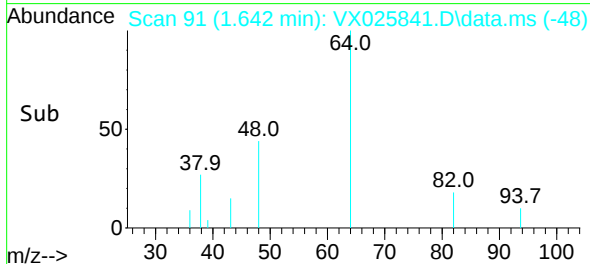
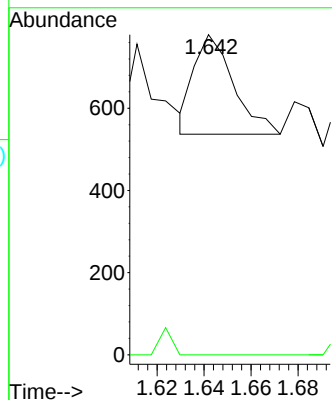
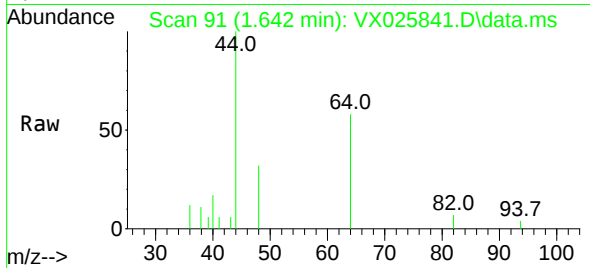




#6
Chloroethane
Concen: 0.209 ug/l
RT: 1.642 min Scan# 91
Delta R.T. -0.037 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

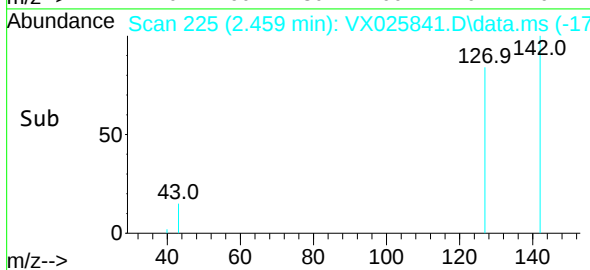
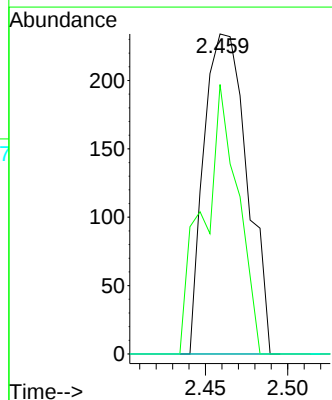
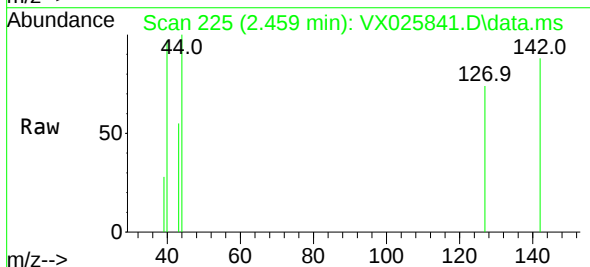
Instrument :
MSVOA_X
ClientSampleId :
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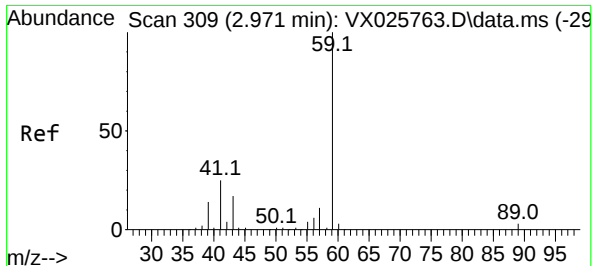
Tgt Ion: 64 Resp: 284
Ion Ratio Lower Upper
64 100
66 0.0 25.9 38.9#



#10
Methyl Iodide
Concen: 0.208 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.006 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 142 Resp: 428
Ion Ratio Lower Upper
142 100
127 67.8 37.5 56.3#
141 0.0 11.4 17.0#





#11

Tert butyl alcohol

Concen: 2.005 ug/l

RT: 2.965 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX025841.D

Acq: 16 Dec 2021 02:49

Instrument :

MSVOA_X

ClientSampleId :

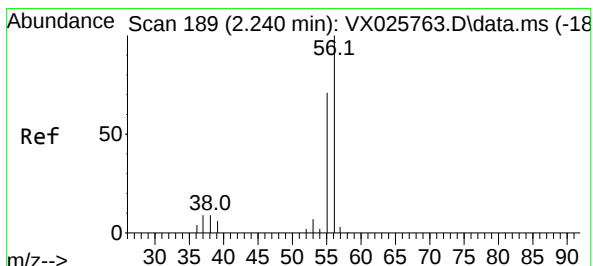
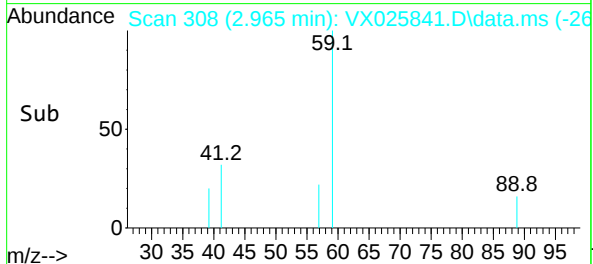
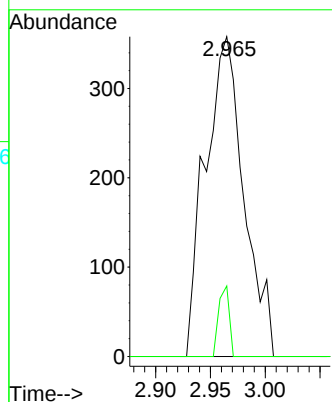
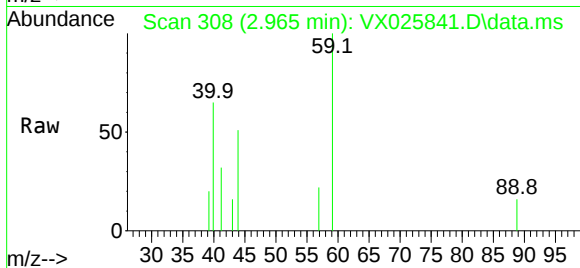
C4

Tgt Ion: 59 Resp: 878

Ion Ratio Lower Upper

59 100

57 6.0 8.2 12.2#



#13

Acrolein

Concen: 0.404 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX025841.D

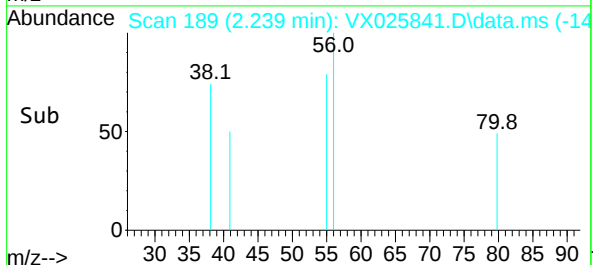
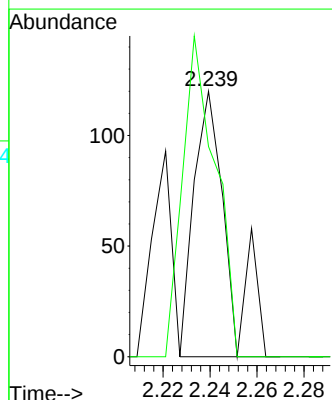
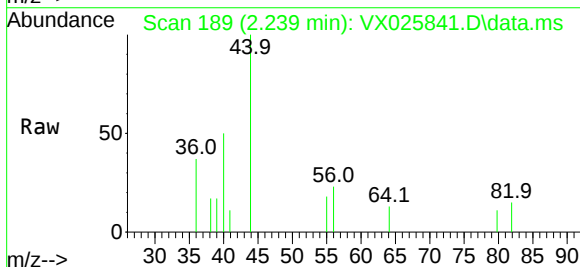
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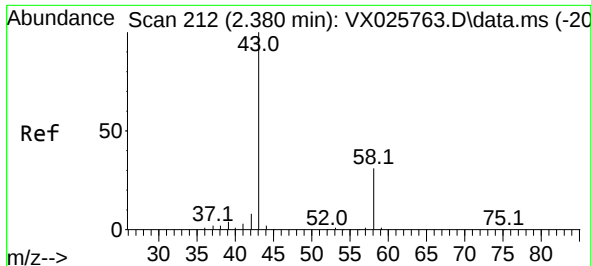
Tgt Ion: 56 Resp: 121

Ion Ratio Lower Upper

56 100

55 116.5 57.4 86.2#

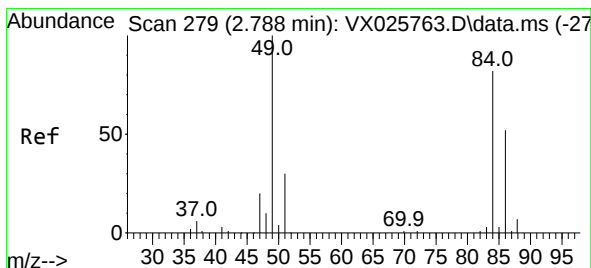
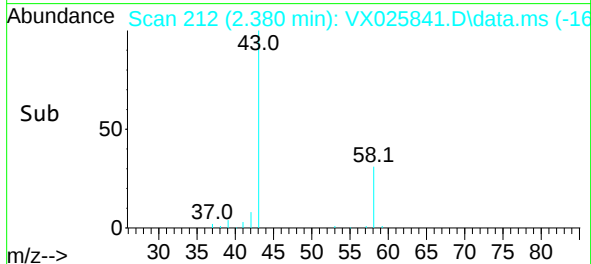
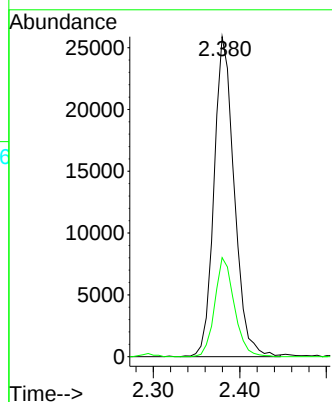
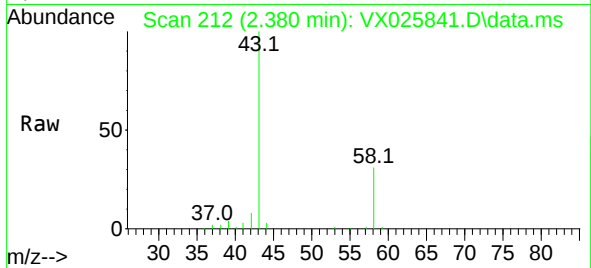




#16
Acetone
Concen: 25.659 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

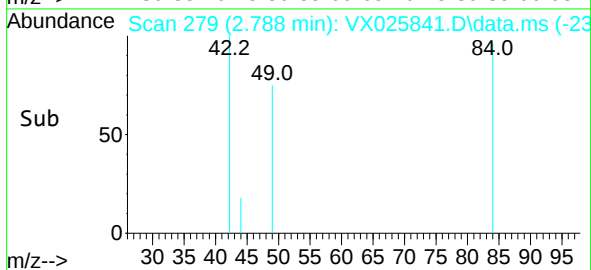
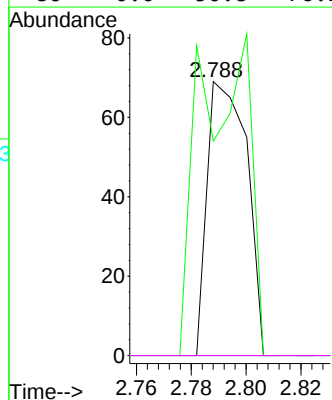
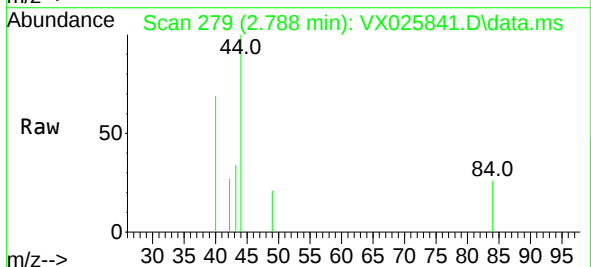
Instrument :
MSVOA_X
ClientSampleId :
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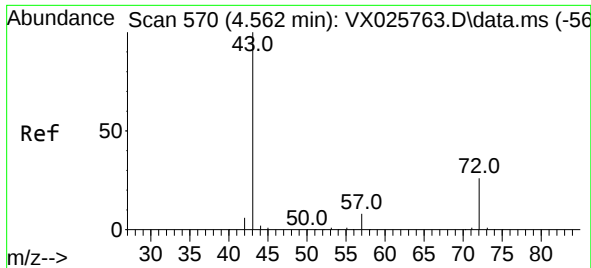
Tgt Ion: 43 Resp: 42000
Ion Ratio Lower Upper
43 100
58 30.9 24.8 37.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 84 Resp: 69
Ion Ratio Lower Upper
84 100
49 78.3 97.1 145.7#
51 0.0 29.3 43.9#
86 0.0 50.8 76.2#

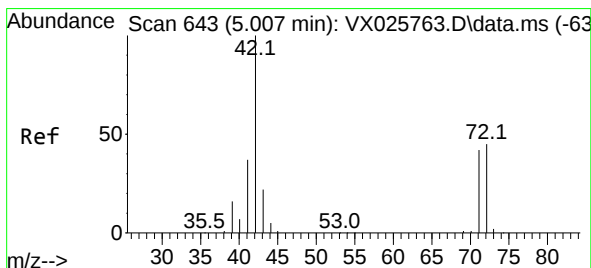
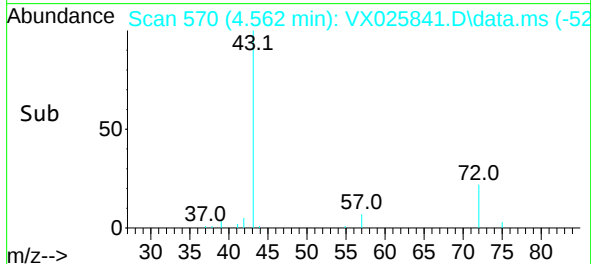
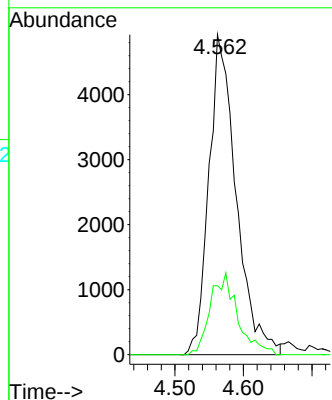
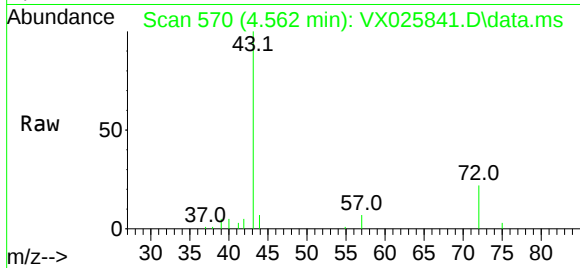




#25
2-Butanone
Concen: 9.295 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

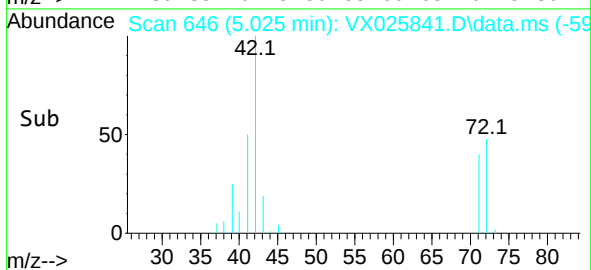
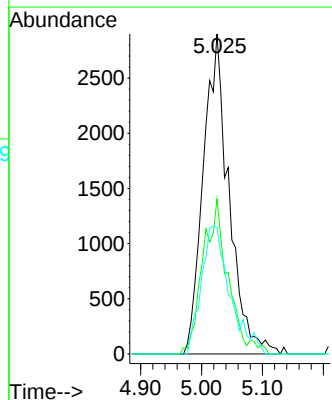
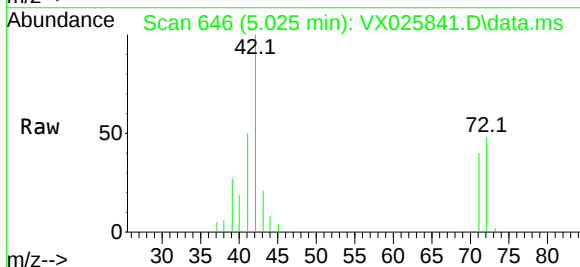
Instrument :
MSVOA_X
ClientSampleId :
C4

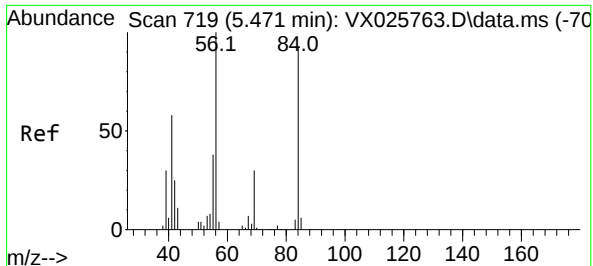
Tgt Ion: 43 Resp: 13646
Ion Ratio Lower Upper
43 100
72 21.5 21.0 31.4



#29
Tetrahydrofuran
Concen: 9.077 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.018 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

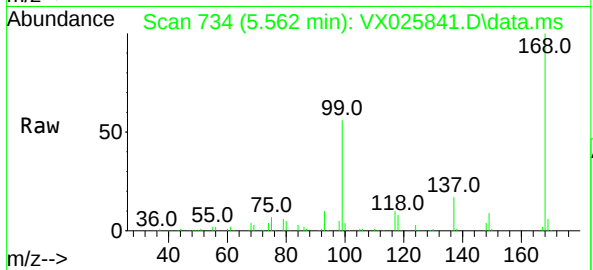
Tgt Ion: 42 Resp: 8472
Ion Ratio Lower Upper
42 100
72 45.8 37.0 55.6
71 44.6 34.1 51.1



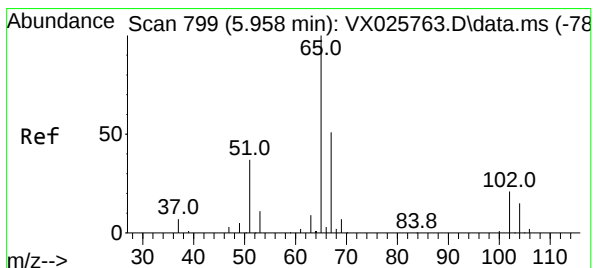
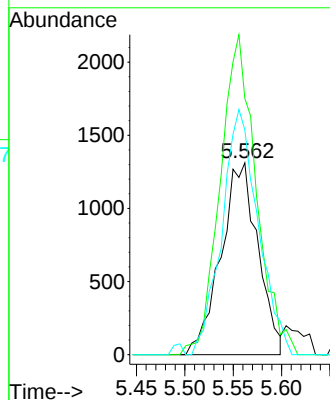
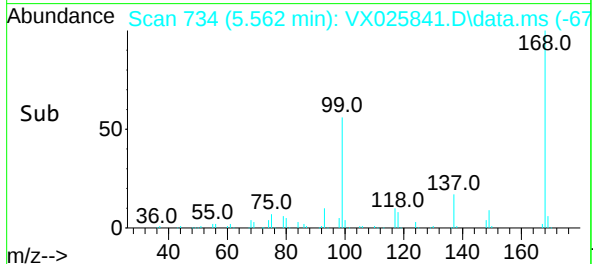


#31
Cyclohexane
Concen: 1.319 ug/l
RT: 5.562 min Scan# 719
Delta R.T. 0.091 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Instrument :
MSVOA_X
ClientSampleId :
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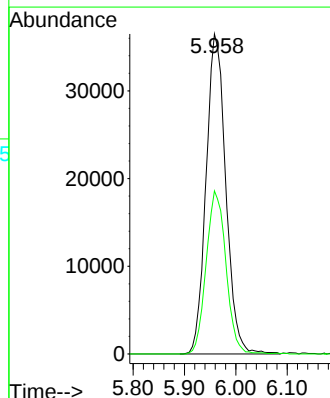
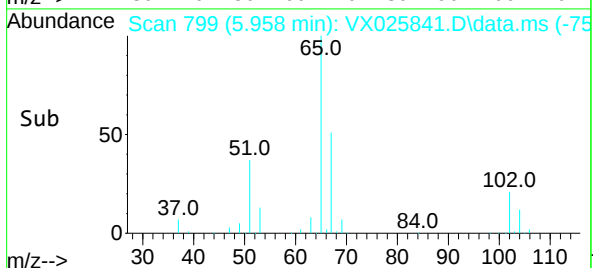
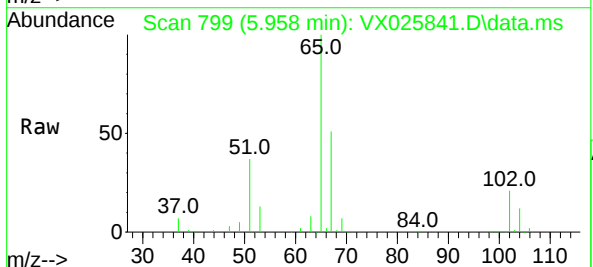


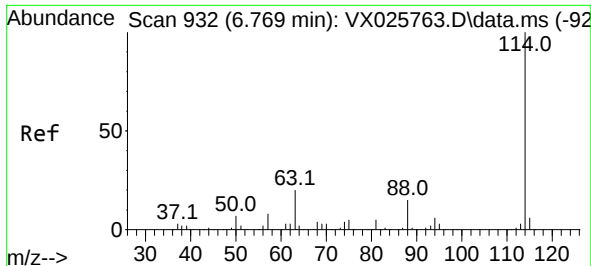
Tgt Ion: 56 Resp: 3500
Ion Ratio Lower Upper
56 100
69 133.6 23.9 35.9#
84 111.5 73.2 109.8#



#33
1,2-Dichloroethane-d4
Concen: 44.600 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 65 Resp: 97349
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.4

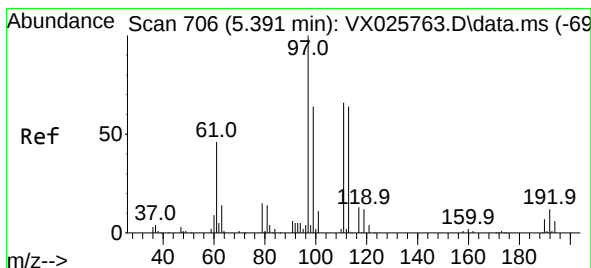
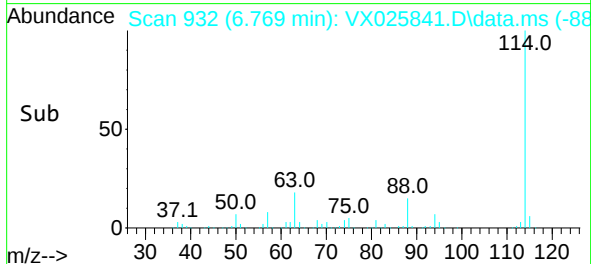
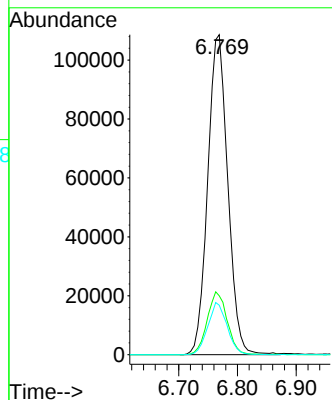
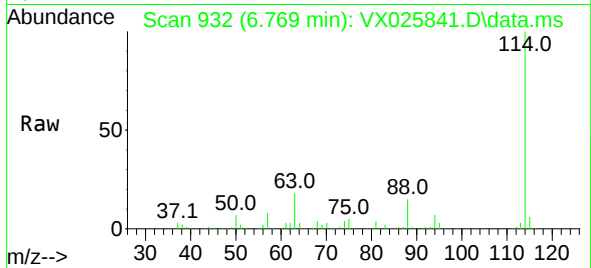




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

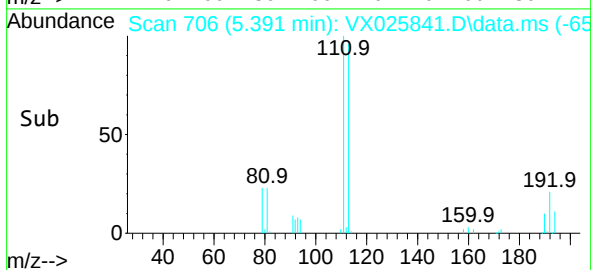
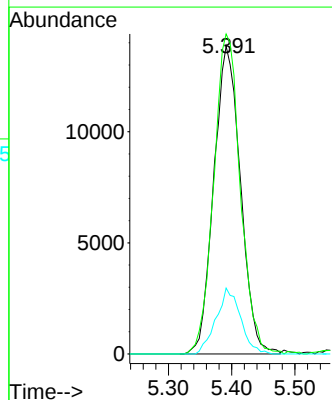
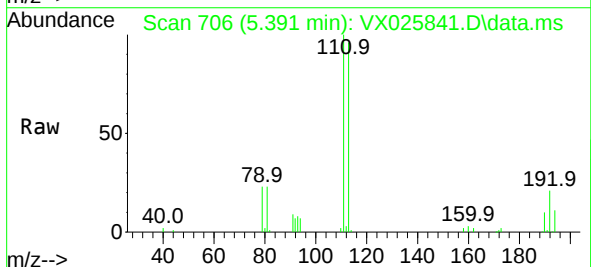
Instrument :
MSVOA_X
ClientSampleId :
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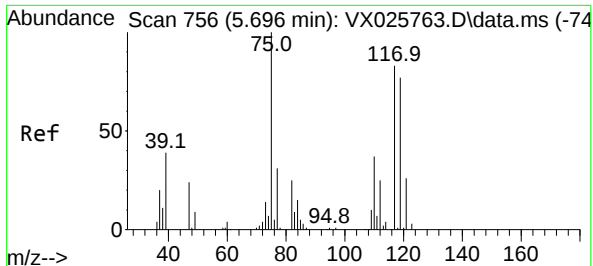
Tgt Ion:114 Resp: 257485
Ion Ratio Lower Upper
114 100
63 18.4 0.0 40.0
88 15.5 0.0 30.6



#35
Dibromofluoromethane
Concen: 22.634 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion:113 Resp: 40644
Ion Ratio Lower Upper
113 100
111 103.2 81.8 122.8
192 19.5 15.0 22.4

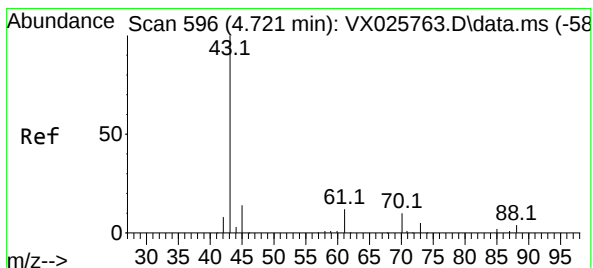
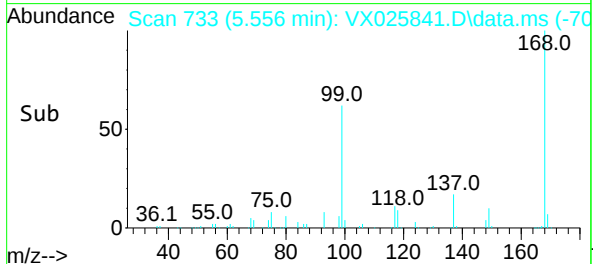
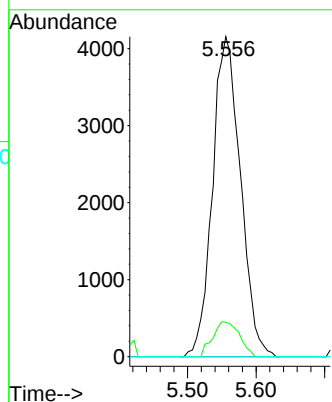
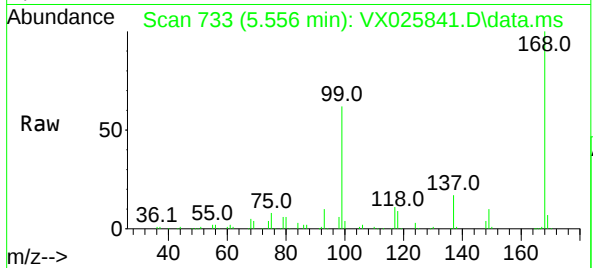




#36
1,1-Dichloropropene
Concen: 4.830 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

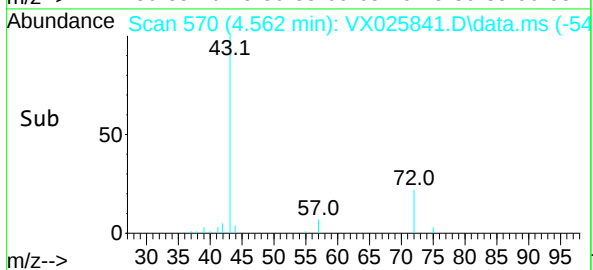
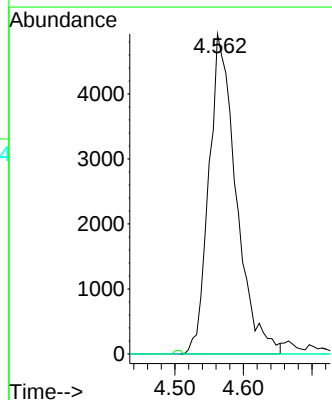
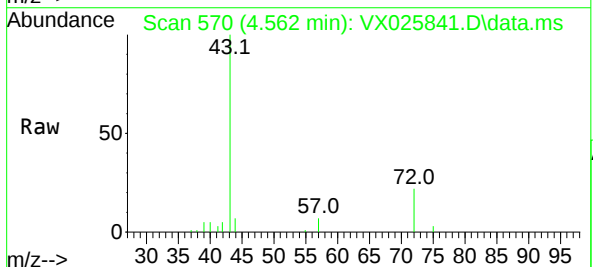
Instrument :
MSVOA_X
ClientSampleId :
C4

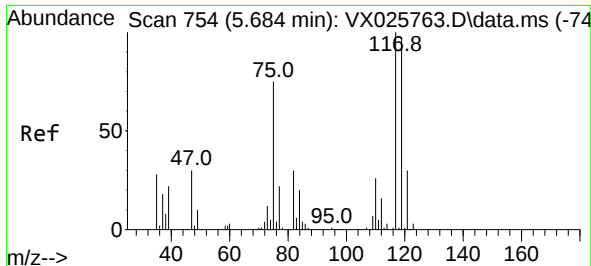
Tgt Ion: 75 Resp: 11763
Ion Ratio Lower Upper
75 100
110 10.4 18.2 54.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 5.044 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.159 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 43 Resp: 13646
Ion Ratio Lower Upper
43 100
61 0.0 10.7 16.1#
70 0.0 8.5 12.7#

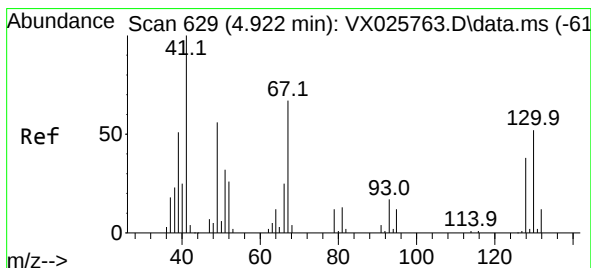
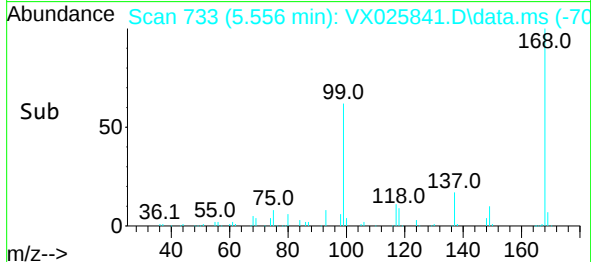
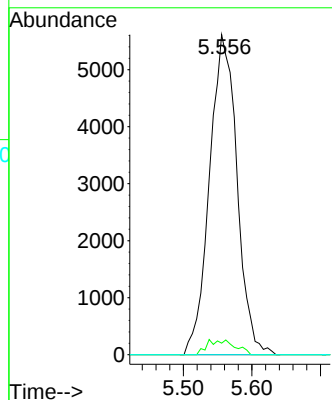
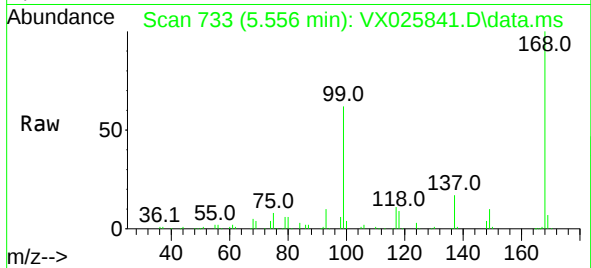




#38
Carbon Tetrachloride
Concen: 5.523 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

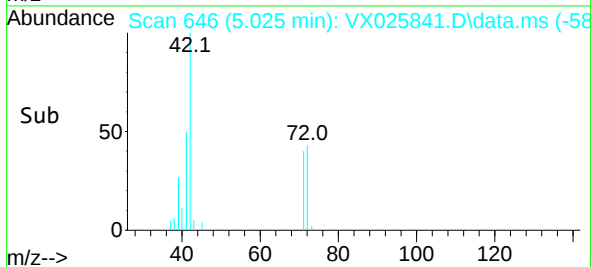
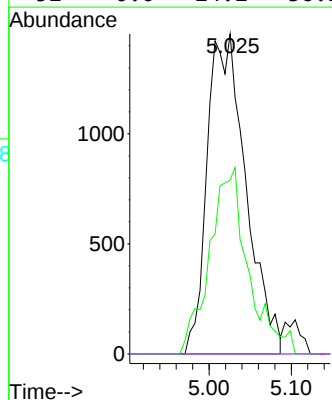
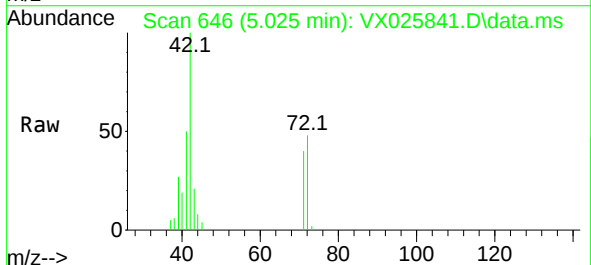
Instrument :
MSVOA_X
ClientSampleId :
C4

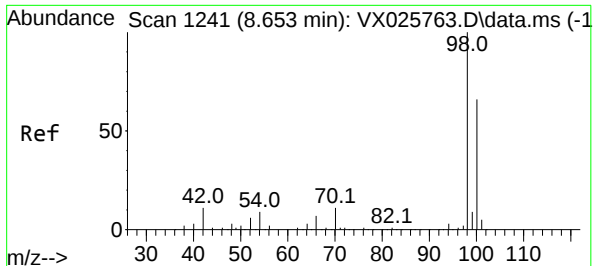
Tgt Ion: 117 Resp: 15649
Ion Ratio Lower Upper
117 100
119 3.6 77.2 115.8#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 3.170 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.103 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 41 Resp: 4746
Ion Ratio Lower Upper
41 100
39 58.0 44.2 66.2
67 0.0 59.7 89.5#
52 0.0 24.2 36.2#

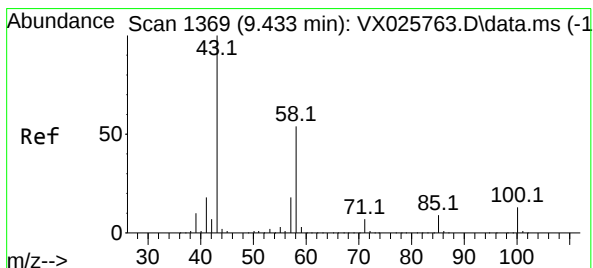
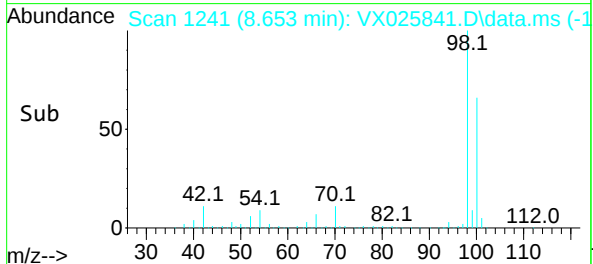
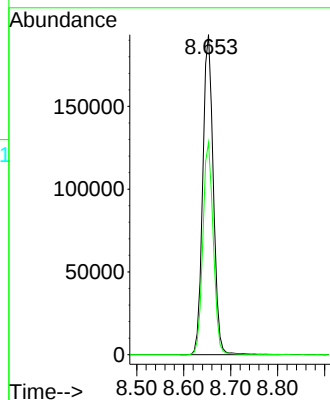
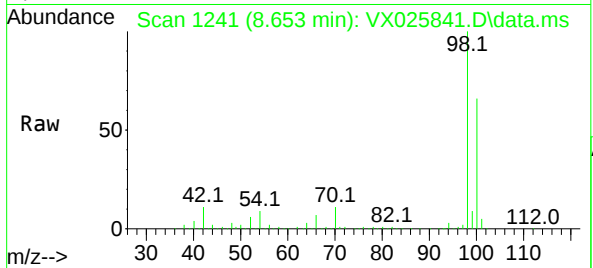




#50
Toluene-d8
Concen: 46.100 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

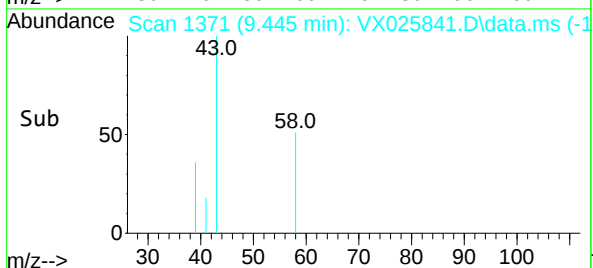
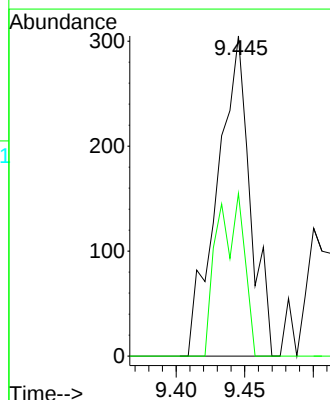
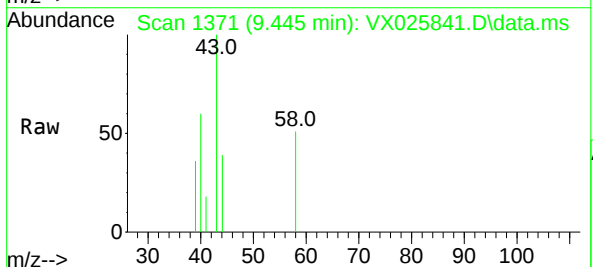
Instrument :
MSVOA_X
ClientSampleId :
C4

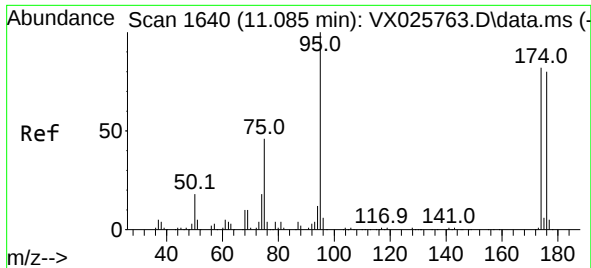
Tgt Ion: 98 Resp: 301624
Ion Ratio Lower Upper
98 100
100 65.5 52.6 78.8



#59
2-Hexanone
Concen: 0.236 ug/l
RT: 9.445 min Scan# 1371
Delta R.T. 0.012 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 43 Resp: 511
Ion Ratio Lower Upper
43 100
58 41.1 26.9 80.6

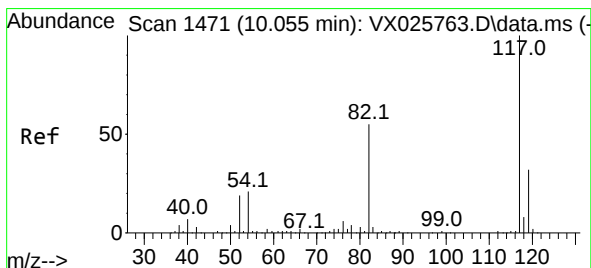
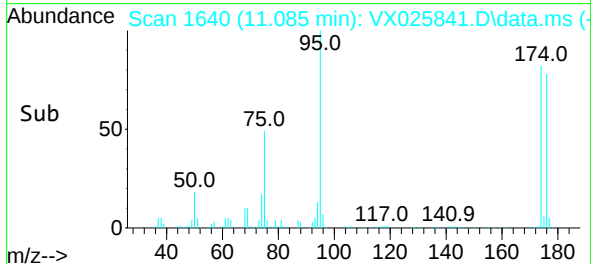
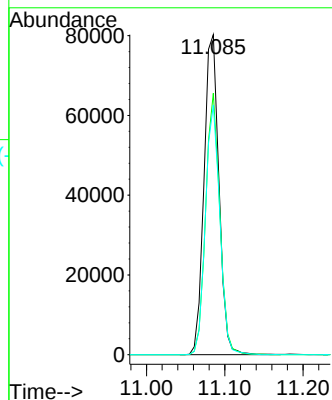
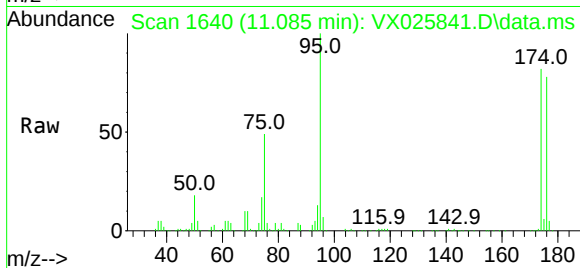




#62
4-Bromofluorobenzene
Concen: 42.636 ug/l
RT: 11.085 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

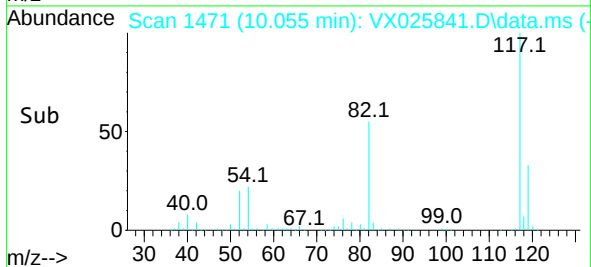
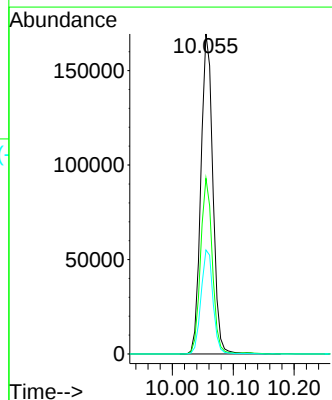
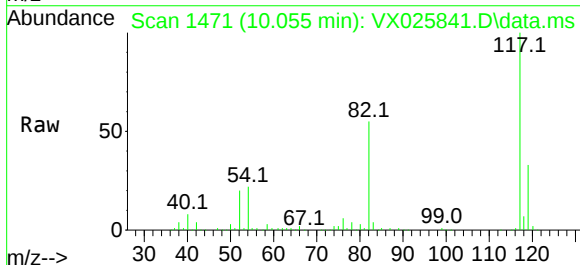
Instrument :
MSVOA_X
ClientSampleId :
C4

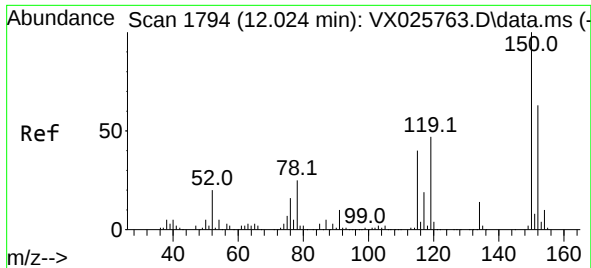
Tgt Ion: 95 Resp: 105967
Ion Ratio Lower Upper
95 100
174 77.4 0.0 157.4
176 75.5 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 117 Resp: 231166
Ion Ratio Lower Upper
117 100
82 54.9 43.8 65.6
119 32.5 25.2 37.8

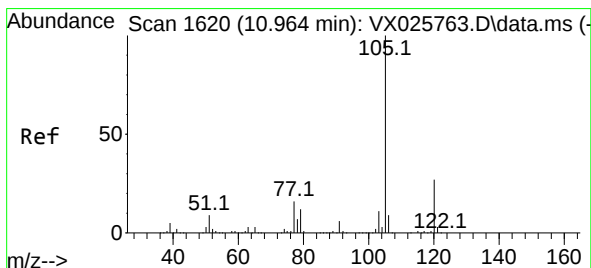
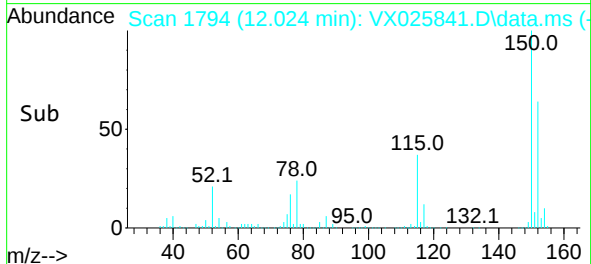
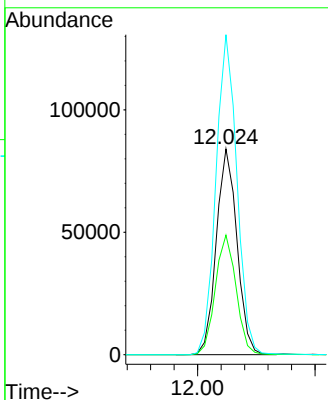
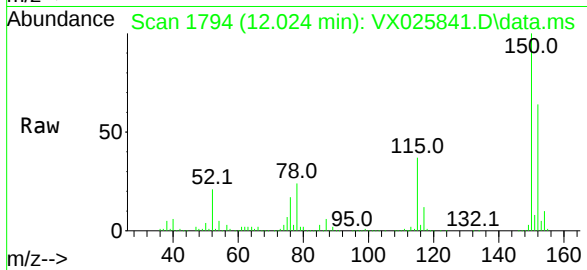




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

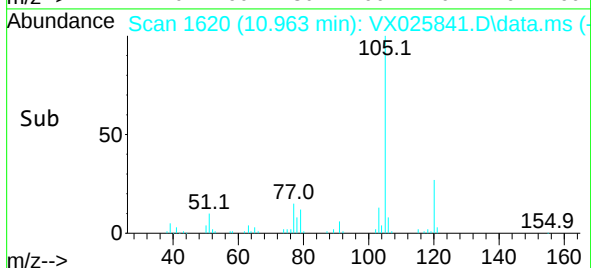
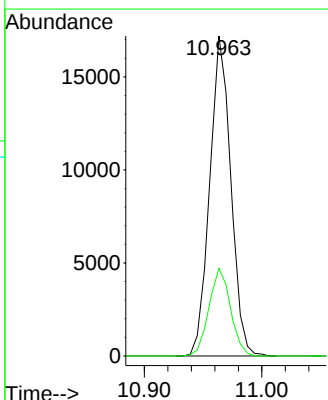
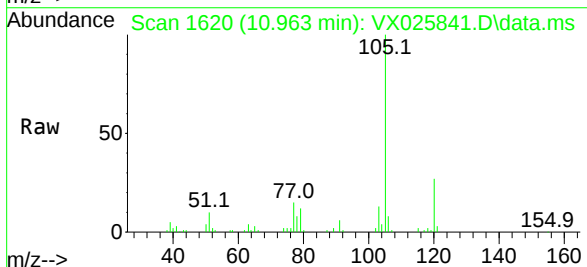
Instrument :
MSVOA_X
ClientSampleId :
C4

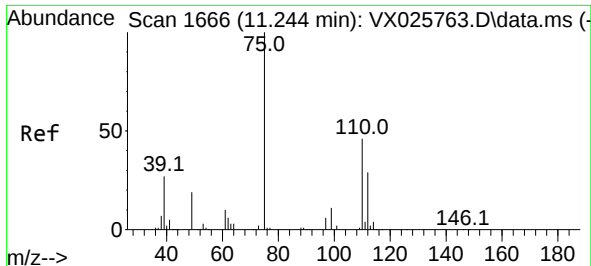
Tgt Ion:152 Resp: 102797
Ion Ratio Lower Upper
152 100
115 58.4 41.3 123.9
150 158.0 0.0 351.8



#73
Isopropylbenzene
Concen: 2.878 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion:105 Resp: 21472
Ion Ratio Lower Upper
105 100
120 27.9 13.6 40.7

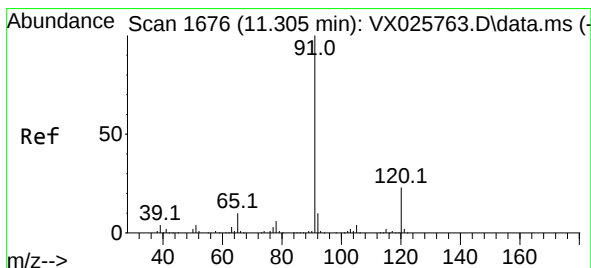
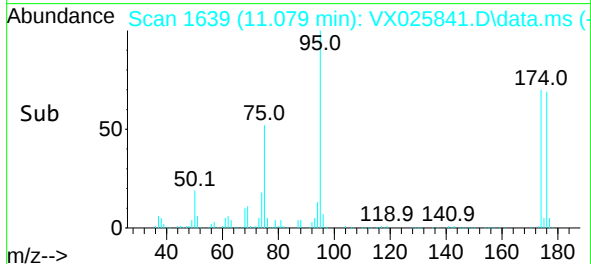
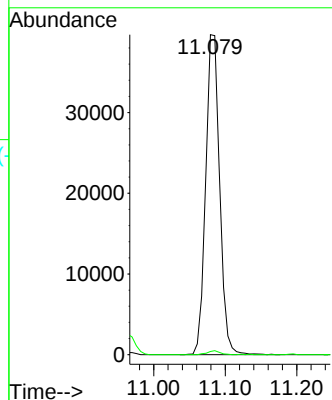
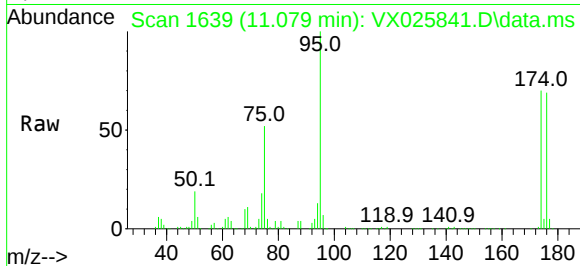




#76
1,2,3-Trichloropropane
Concen: 22.857 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

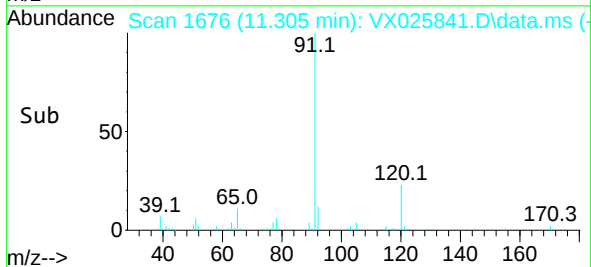
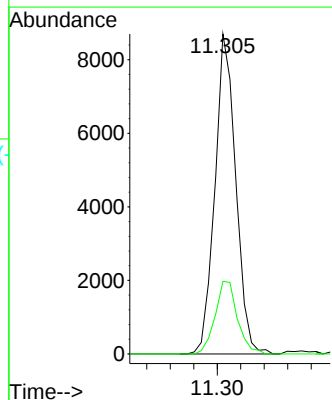
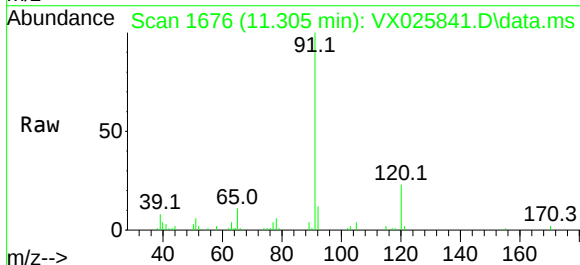
Instrument :
MSVOA_X
ClientSampleId :
C4

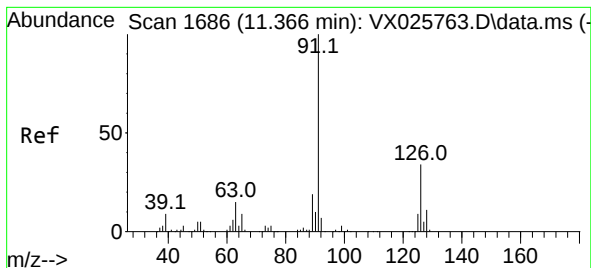
Tgt Ion: 75 Resp: 53833
Ion Ratio Lower Upper
75 100
77 1.1 19.0 57.0#



#78
n-propylbenzene
Concen: 1.271 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 91 Resp: 10729
Ion Ratio Lower Upper
91 100
120 24.4 12.0 36.1





#79

2-Chlorotoluene

Concen: 1.999 ug/l

RT: 11.305 min Scan# 1

Delta R.T. -0.061 min

Lab File: VX025841.D

Acq: 16 Dec 2021 02:49

Instrument :

MSVOA_X

ClientSampleId :

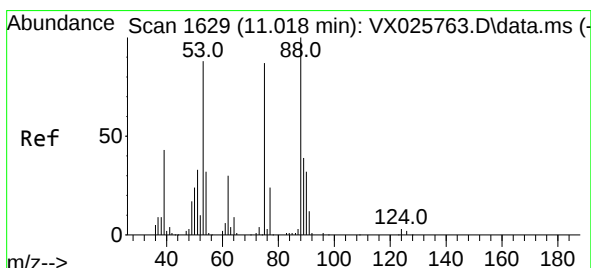
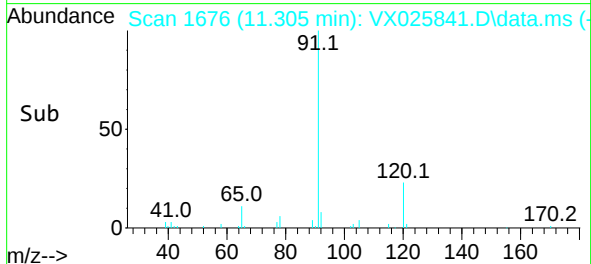
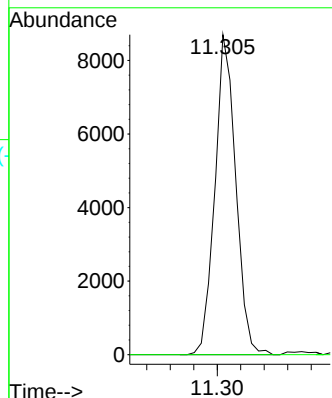
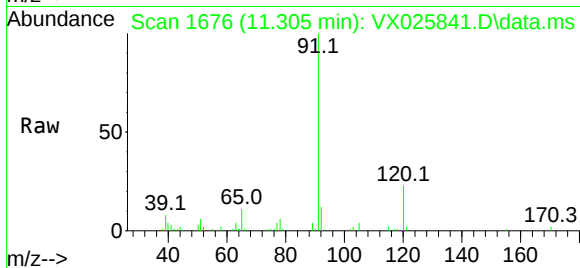
C4

Tgt Ion: 91 Resp: 10729

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.861 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX025841.D

Acq: 16 Dec 2021 02:49

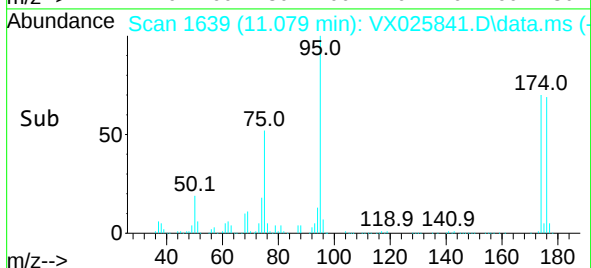
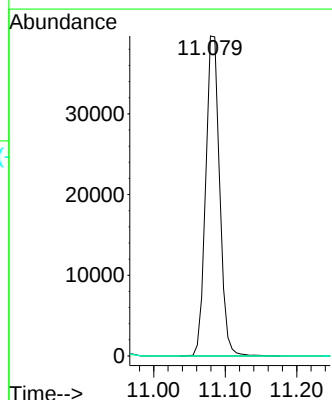
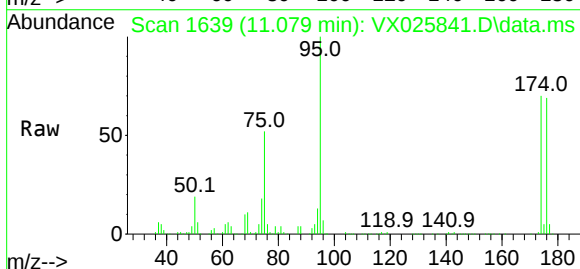
Tgt Ion: 75 Resp: 53833

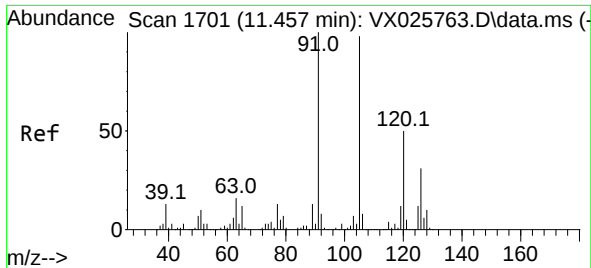
Ion Ratio Lower Upper

75 100

53 0.0 79.5 119.3#

89 0.0 38.3 57.5#

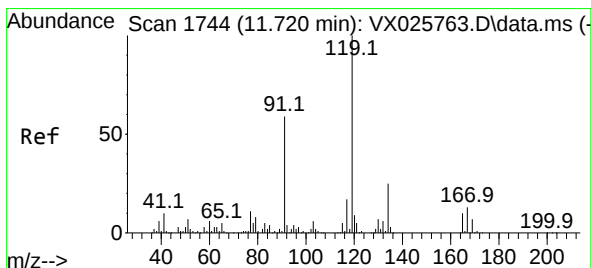
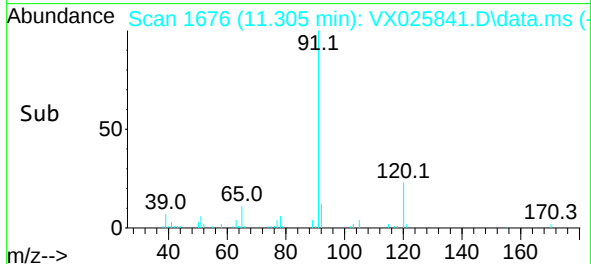
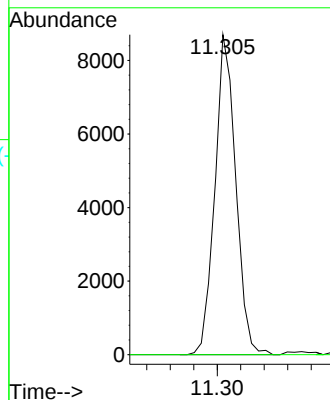
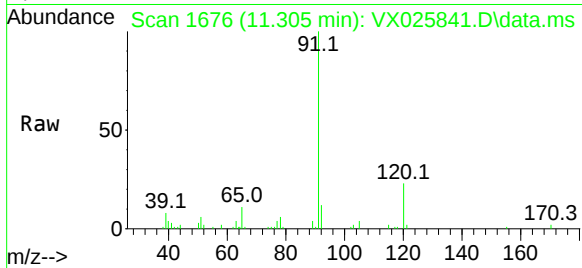




#82
4-Chlorotoluene
Concen: 1.785 ug/l
RT: 11.305 min Scan# 1701
Delta R.T. -0.153 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

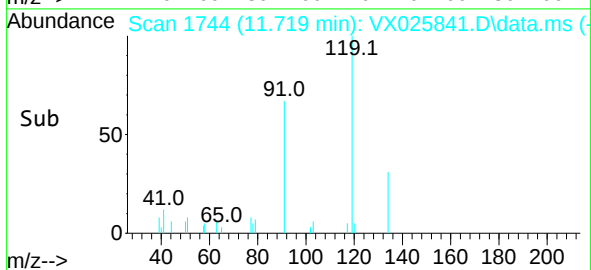
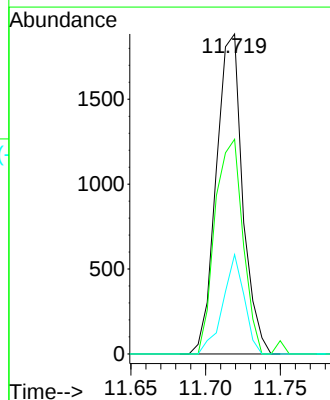
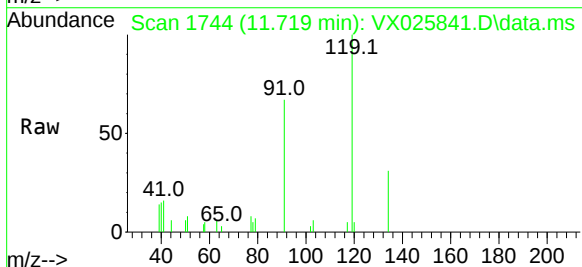
Instrument :
MSVOA_X
ClientSampleId :
C4

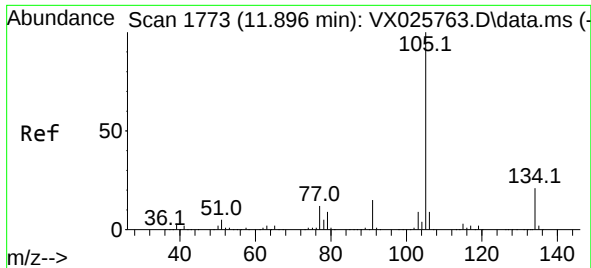
Tgt Ion: 91 Resp: 10729
Ion Ratio Lower Upper
91 100
126 0.0 15.6 46.7#



#83
tert-Butylbenzene
Concen: 0.382 ug/l
RT: 11.719 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 119 Resp: 2314
Ion Ratio Lower Upper
119 100
91 70.8 28.7 86.1
134 25.1 11.9 35.9

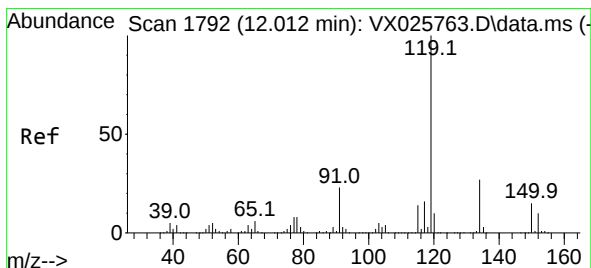
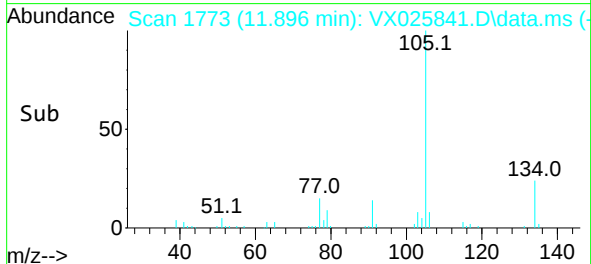
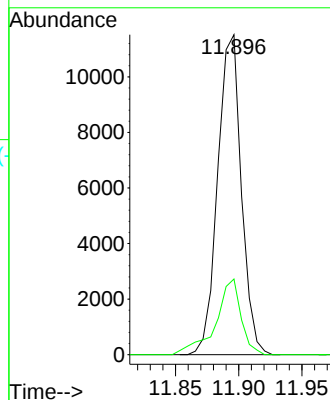
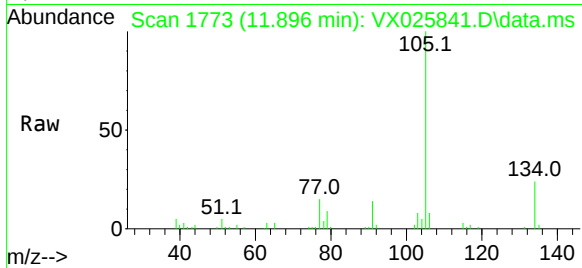




#85
 sec-Butylbenzene
 Concen: 2.051 ug/l
 RT: 11.896 min Scan# 11896
 Delta R.T. -0.000 min
 Lab File: VX025841.D
 Acq: 16 Dec 2021 02:49

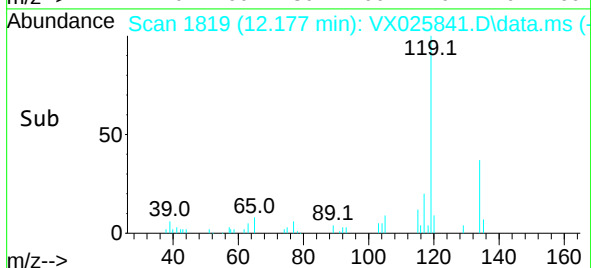
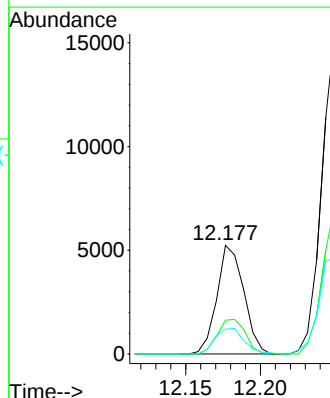
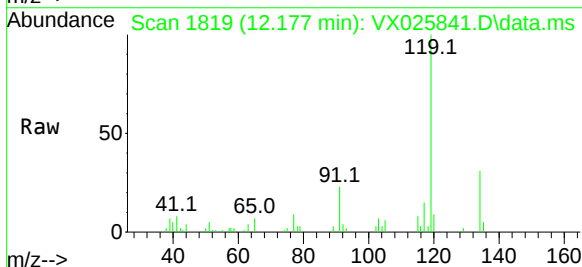
Instrument :
 MSVOA_X
 ClientSampleId :
 C4

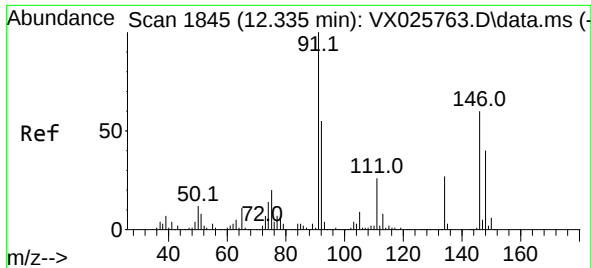
Tgt Ion:105 Resp: 14954
 Ion Ratio Lower Upper
 105 100
 134 25.4 10.4 31.1



#86
 p-Isopropyltoluene
 Concen: 1.066 ug/l
 RT: 12.177 min Scan# 1819
 Delta R.T. 0.164 min
 Lab File: VX025841.D
 Acq: 16 Dec 2021 02:49

Tgt Ion:119 Resp: 6527
 Ion Ratio Lower Upper
 119 100
 134 33.3 13.2 39.6
 91 25.6 11.9 35.9

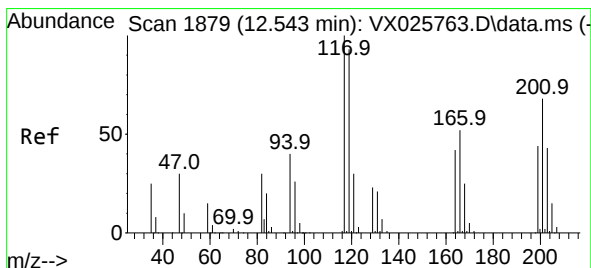
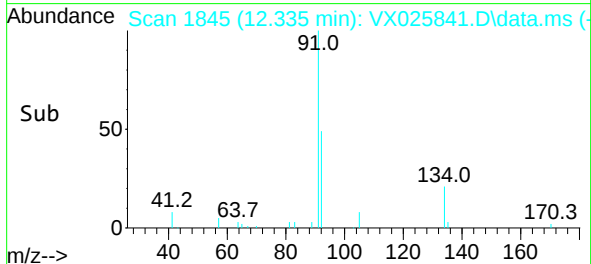
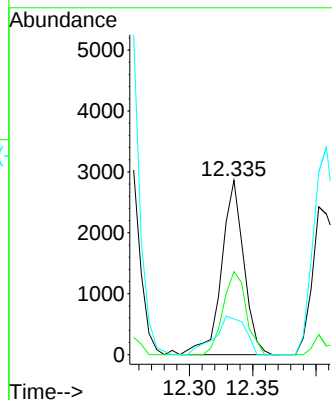
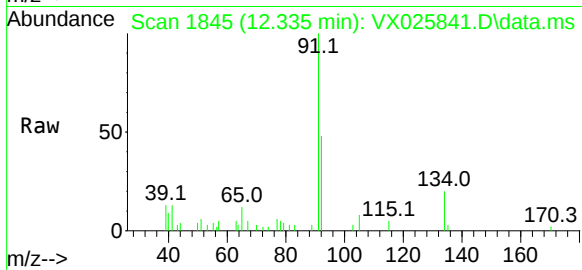




#89
n-Butylbenzene
Concen: 0.684 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

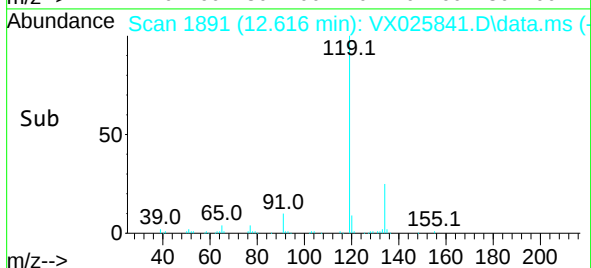
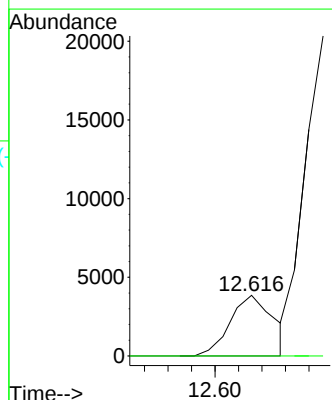
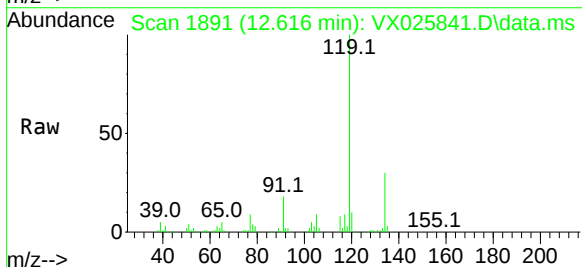
Instrument :
MSVOA_X
ClientSampleId :
C4

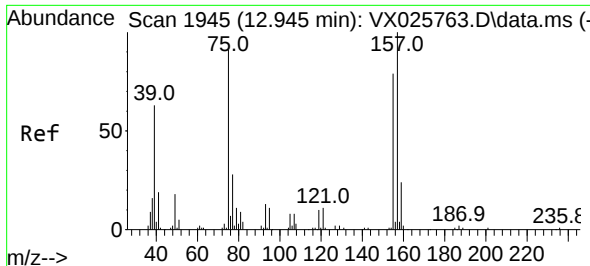
Tgt Ion: 91	Resp:	3491
Ion	Ratio	Lower Upper
91	100	
92	49.3	27.3 81.8
134	30.4	13.5 40.4



#90
Hexachloroethane
Concen: 4.085 ug/l
RT: 12.616 min Scan# 1891
Delta R.T. 0.073 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion: 117	Resp:	4915
Ion	Ratio	Lower Upper
117	100	
201	0.0	35.4 106.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.774 ug/l

RT: 12.920 min Scan# 1945

Delta R.T. -0.025 min

Lab File: VX025841.D

Acq: 16 Dec 2021 02:49

Instrument :

MSVOA_X

ClientSampleId :

C4

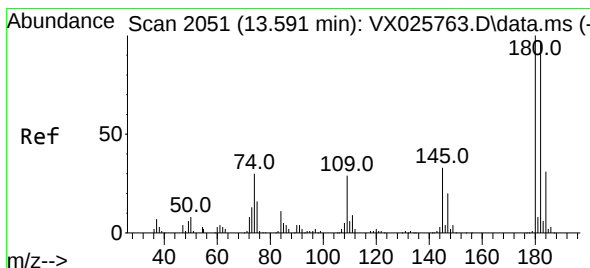
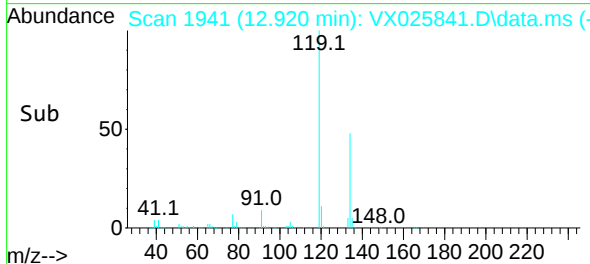
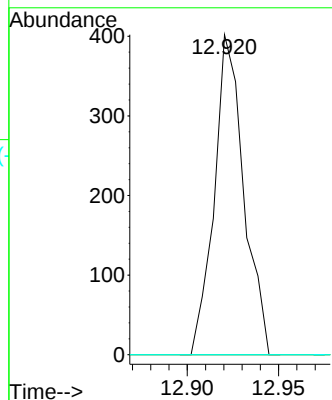
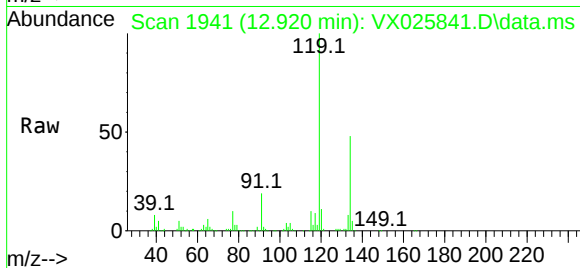
Tgt Ion: 75 Resp: 452

Ion Ratio Lower Upper

75 100

155 0.0 44.0 131.8#

157 0.0 55.5 166.5#



#93

1,2,4-Trichlorobenzene

Concen: 3.455 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.006 min

Lab File: VX025841.D

Acq: 16 Dec 2021 02:49

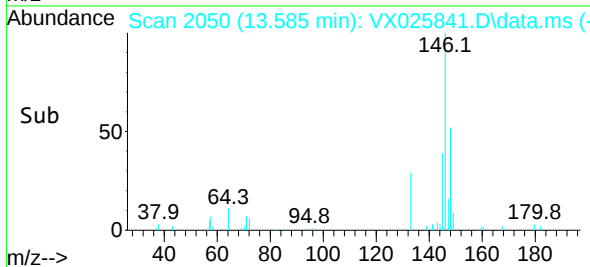
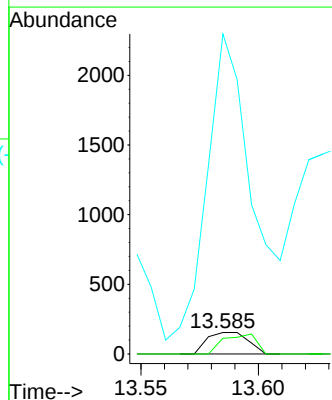
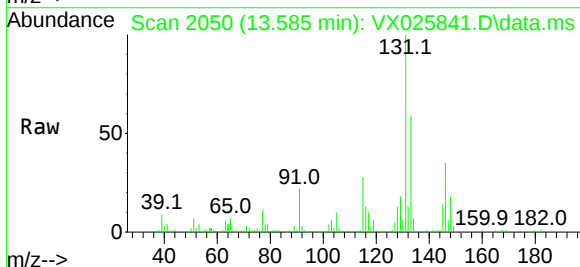
Tgt Ion:180 Resp: 187

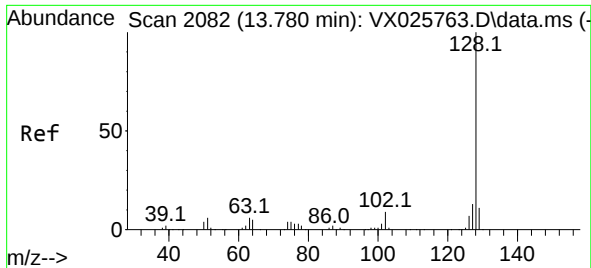
Ion Ratio Lower Upper

180 100

182 73.3 47.2 141.6

145 1566.3 16.3 48.9#

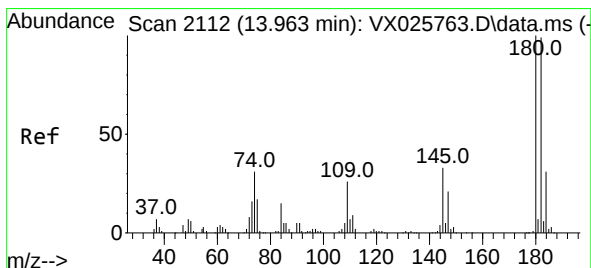
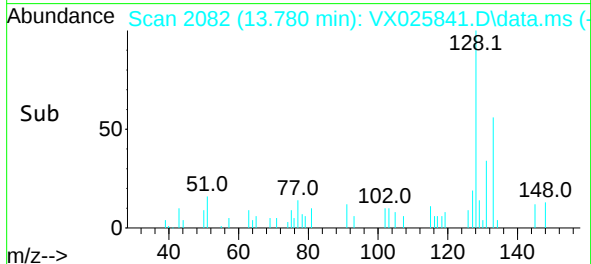
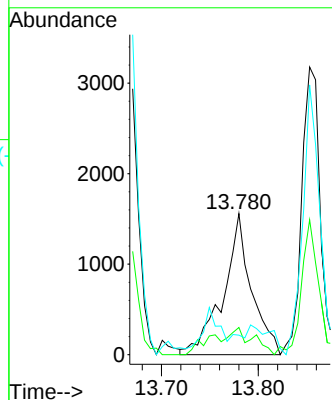
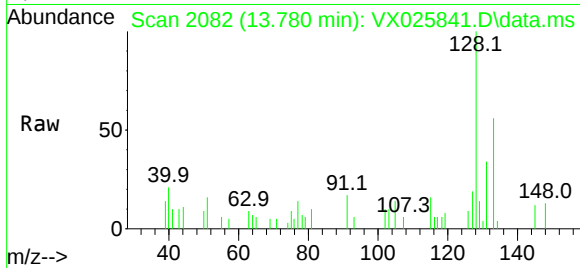




#95
Naphthalene
Concen: 2.839 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Instrument :
MSVOA_X
ClientSampleId :
C4

Tgt Ion:128 Resp: 3151
Ion Ratio Lower Upper
128 100
127 16.6 10.3 15.5#
129 18.7 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 3.030 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX025841.D
Acq: 16 Dec 2021 02:49

Tgt Ion:180 Resp: 80
Ion Ratio Lower Upper
180 100
182 58.8 47.5 142.6
145 4395.0 16.7 50.1#

